

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE							ATTY. DOCKET NO.: 228.1010	SERIAL NO.: 09/980,727			
LIST OF PRIOR ART CITED BY APPLICANT  (Use several sheets if necessary)		APPLICANT(S): Hubert REIN, et al.							SEARCHED				
		FILING DATE: October 19, 2001							GROUP: 1615				
U.S. PATENT DOCUMENTS													
*EXAMINER INITIAL		DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
SD	AA	4	1	3	2	7	5	3	01/02/79	Bllichare et al.	264	25	11/03/67
	AB	4	5	3	3	5	6	7	08/06/85	Ikegami et al.	424	3	04/19/84
	AC	4	7	8	4	3	7	8	08/16/88	Keith et al.	424	435	02/10/88
	AD	4	8	2	8	8	3	6	05/09/88	Elger et al.	424	418	05/18/87
	AE	4	8	8	2	1	6	7	11/21/89	Jang	424	468	11/24/87
	AF	4	8	8	0	8	3	0	11/14/89	Rhodes	424	470	02/09/87
	AC	4	8	8	4	7	3	4	01/16/90	Sharma et al.	424	440	12/28/89
	AH	4	9	8	4	2	2	7	02/19/91	Dietz et al.	264	328.16	02/03/89
	AI	5	0	2	3	0	8	9	06/11/91	Sakamoto et al.	424	502	07/13/88
	AJ	5	0	5	5	3	6	7	10/08/91	Tsuru et al.	424	693	12/28/89
	AK	5	1	3	3	9	7	4	07/28/92	Paradisis et al.	424	480	01/24/90
FOREIGN PATENT DOCUMENTS													
		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
												YES	NO
SD	AL	WO	94	0	8	5	6	8	04/28/94	PCT	A61K	9/26	Abstract
	AM	WO	94	2	3	6	6	8	10/27/94	PCT	A61K	9/14	
	AN	WO	93	2	4	1	1	0	12/09/93	PCT	A61K	9/20	Abstract
	AO	WO	93	0	2	8	5	9	04/29/93	PCT	A61K	9/18	
	AP	0	4	8	1	6	0	0	04/22/92	EPO(A2)	A61L	15/28	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)													
SD	AQ	Nicolas Follonier <sup>1</sup> , Eric Doelker and Ewart T. Cole, Evaluation of Hot-Melt Extrusion as a New Technique for the Production of Polymer-Based Pellets for Sustained Release Capsules containing high loadings of freely soluble drugs, Drug Development and Industrial Pharmacy, 20(8), 1323-1339 (1994)											
	AR	Nicolas Follonier <sup>1</sup> , Eric Doelker <sup>1</sup> and Ewart T. Cole <sup>2</sup> , Hot-Melt Extruded Pellets for the Sustained Release of Highly Dosed Freely Soluble Drugs, Proceed. Intern. Symp. Control. Rel. Bioact. Mater., 18(1991), pages 578-579											
	AS	Twin Screw Extrusion in the Production of Novel Dosage Forms, Pharmaceutical Manufacturing Review (June 1994)											
EXAMINER <i>Sumi Oh</i>		DATE CONSIDERED <i>2/8/04</i>											
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>													

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*EXAMINER INITIAL		DOCUMENT NUMBER						DATE	NAME	CLASS	GROUP: 1617			
<i>SD</i>	BA	5	2	7	3	7	5	8	12/28/93	Royce	424	465	04/13/92	
	BB	5	3	8	0	5	3	5	01/10/95	Geyer et al.	424	484	11/25/92	
	BC	5	2	0	2	1	2	8	04/13/93	Moreba et al.	424	469	08/24/90	
	BD	Re.	3	3	0	9	3		10/17/89	Schiraldi et al.	424	676	11/16/88	
	BE	5	3	5	6	6	3	5	10/18/94	Raman et al.	424	484	07/13/93	
	BF	5	1	8	3	6	9	0	02/02/93	Carr et al.	427	213.31	06/25/90	
	BG	5	0	7	3	3	7	9	12/17/91	Klimesch et al.	424	467	08/25/89	
	BH	4	9	5	7	6	8	1	09/18/90	Klimesch et al.	264	211.23	04/03/89	
	BI	5	2	8	3	0	6	5	2/1/94	Doyon, et al.	424	467	3/23/92	
	BJ	4	8	0	6	3	3	7	2/21/89	Snipes, et al.	71	65	10/14/86	
	BK	5	2	8	0	5	6	0	3/1/94	Autant, et al.	424	438	6/21/91	
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
<i>SD</i>	BL	2	0	8	2	5	7	3	05/24/93	Canada	A61K	047/38	YES	NO
<i>SD</i>	BM	0	5	8	0	8	6	0	02/02/94	EPO (A1)	A61K	9/14		
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
<i>SD</i>	BB	Follonier, Nicolas, et al., "Hot-Melt Extruded Pellets For The Sustained Release Of Highly Dosed Freely Soluble Drugs", Capsule News, Vol. 1, No. 3, Edited by Roland Daunesnail, (June/July 1991)												
<i>SD</i>	BD	Frank W. Goedhart et al., Design and Use of a Laboratory Extruder for Pharmaceutical Granulations, Journal of Pharm. Scien., 62(1), p. 133-136 (January 1973).												
<i>SD</i>	BP	Publication, KEX, Twin-Screw Compounding Extruder, (October 1989).												
EXAMINER <i>Simon Oli</i>		DATE CONSIDERED <i>2/8/04</i>												
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U.S. PATENT DOCUMENTS														
*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
SD	CA	5	0	4	9	3	8	4	9/17/91	Howard, et al.	424	490	3/15/89	
	CB	4	8	6	1	5	9	8	8/29/89	Oshlack	424	468	7/18/86	
	CC	4	8	1	4	4	5	0	4/4/89	Hall, et al.	264	39	10/27/88	
	CD	4	7	2	0	3	8	4	1/19/88	Diluccio, et al.	424	78	8/21/86	
	CE	4	3	7	4	0	8	2	2/15/83	Hochschild	264	129	8/18/91	
	CF	3	8	8	0	9	9	1	04/29/75	Yolles	424	22		
	CG	4	2	6	5	8	7	5	05/05/81	Byrne, et al.	424	19		
	CH	4	2	9	2	3	0	0	09/29/81	Byrne, et al.	424	19		
	CI	4	3	4	4	4	3	1	08/17/82	Yolles	128	260		
	CJ	4	3	4	6	7	0	9	08/31/82	Schmitt	128	260		
	CK	4	4	0	6	8	8	3	09/27/83	Byrne, et al.	424	80		
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
SD	CL	0	5	4	4	1	4	4	06/02/93	EPO (A1)	A61K	9/20	Abstract	
	CM	WO	93	0	7	8	5	9	04/29/93	PCT	A61K	9/16		
	CN	WO	93	1	9	7	5	3	9/30/93	PCT	A61K	9/16		
	CO	WO	92	1	4	1	0	6	10/29/92	Japan	A61K	9/14	Abstract	
	CP	9	3	0	0	0	6	3	01/07/93	WO (A1)	A61J	3/00		
	CO	9	3	1	4	7	6	5	06/10/93	WO (A1)	A61K	9/22		
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
SD	CR	Abstract No. 2-223533 *Agent with Release-Controlled Matrix*												
EXAMINER		Simon Oh							DATE CONSIDERED		2/8/84			
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SD	DA	4	6	2	1	1	1	4	11/04/86	Watsonabe	524	451		
	DB	4	6	4	9	0	4	2	03/10/87	Davis, et al.	424	438		
	DC	4	8	0	1	4	6	0	01/31/89	Goertz, et al.	424	465		
	DD	4	4	8	0	5	8	5	11/14/89	Klimesch, et al.	284	141		
	DE	4	9	7	0	4	7	5	11/13/90	Oshlack	424	451		
	DF	4	9	5	2	1	0	0	02/12/91	Koepff, et al.	106	125S		
	DG	5	1	3	2	6	6	8	04/07/92	Eichel, et al.	424	490		
	DH	5	3	5	6	5	5	4	09/27/94	McClelland, et al.	424	501		
	DI	5	4	5	6	9	2	3	10/10/95	Nakemichi, et al.	424	489		
	DJ	4	1	7	3	4	1	7	11/6/79	Kruder	366	89	8/20/78	
	DK	4	2	3	0	6	8	7	10/28/80	Sair et al.	424	22	5/30/78	
	DL	4	7	7	8	6	7	6	10/18/88	Yang et al.	424	79	12/20/85	
	DM	4	8	4	2	7	6	1	6/27/89	Rutherford	252	90	3/23/88	
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
SD	DN	0	2	3	9	9	8	3	11/21/91	EPO (B1)	A61J	3/06	Abstract	
	DO	0	2	7	8	8	3	4	07/27/88	EPO (B1)	A61K	9/20		
	DP	0	3	2	0	4	8	0	11/25/92	EPO (B1)	B01F	5/22		
	DQ	0	4	0	1	2	3	8	03/08/95	EPO (B1)	B30B	11/22		
	DR	2	2	0	7	3	5	5	01/23/91	Great Britain (B)	A61M	31/00		
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
SD	DS	Derwent Abstract DE 2553026 (1976)												
EXAMINER <i>Simon</i>										DATE CONSIDERED <i>2/8/04</i>				
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SD	EA	4	8	7	9	1	0	8	11/7/89	Yang et al.	424	440	10/14/88	
	EB	4	8	8	2	1	5	1	11/21/89	Yang et al.	424	440	10/14/88	
	EC	4	8	8	2	1	5	2	11/21/89	Yang et al.	424	440	10/14/88	
	ED	4	8	8	2	1	5	3	11/21/89	Yang et al.	424	440	10/13/88	
	EE	4	8	8	2	1	5	5	11/21/89	Yang et al.	424	440	10/14/88	
	EF	4	8	8	2	1	5	6	11/21/89	Yang et al.	424	440	10/14/88	
	EG	5	3	5	4	6	5	6	10/11/94	Kawashima et al.	536	127	05/23/91	
	EH	4	6	8	2	1	5	7	11/21/89	Yang et al.	424	440	10/14/88	
	EF	4	6	8	2	1	5	9	11/21/89	Yang et al.	424	440	10/14/88	
	EJ	4	9	5	9	2	0	2	9/25/90	Chakrabarti et al.	424	78	10/28/88	
	EK	5	0	3	5	5	0	9	7/30/91	Kruder	366	89	8/13/90	
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
SD	EL	0	3	6	8	2	4	7	5/16/90	EP (A2)	A61K	9/26	YES	NO
	EM	0	3	7	5	0	6	3	6/27/90	EP (A1)	A61K	9/18		
	EN	2	2	2	3	5	3	3	9/05/90	JP (A)	A61K	47/14	Abstract	
	EO	2	2	2	3	5	1	3	9/5/90	JP (A)	A61K	9/10	Abstract	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
SD	EP	Derwent Abstract of JP 62040277 (1987)												
	EQ	Derwent Abstract of JP58109411 (1983)												
	ER	Derwent Abstract EP 358 107 (1990)												
	ES	Sekiguchi, et al., "Studies on Absorption of Eutectic Mixture.....", Chem. Pharm. Bull., Vol. 9 (1961), pp. 866-872												
EXAMINER		<i>Simon Oh</i>							DATE CONSIDERED		2/8/84			

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<i>SD</i>	FA	5	2	2	6	1	4	8	7/20/93	Copper	426	5	2/20/92	
	FB	5	2	4	0	4	0	0	8/31/93	Fujimoto et al.	425	310	7/27/92	
	FC	5	2	6	2	1	7	2	11/16/93	Sipos	424	490	6/19/92	
	FD	5	2	6	5	2	6	6	3/22/94	Kunugi et al.	427	213	2/19/91	
	FE	5	3	4	0	5	8	1	8/23/94	Tseng et al.	424	401	6/15/92	
	FF	5	4	7	6	5	2	8	12/19/95	Trimm et al.	71	21	12/20/93	
	FG	5	5	1	0	1	1	4	4/23/96	Borelia et al.	424	452	5/2/94	
	FH	5	5	1	6	2	0	5	5/14/96	Oda et al.	366	75	1/12/95	
	FI	5	5	5	2	1	5	9	9/3/96	Mueller et al.	424	464	9/23/93	
	FJ	5	5	5	7	4	3	9	10/22/96	Myers et al.	424	486	11/4/94	
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
<i>SD</i>	FK	2	2	7	3	5	1	2	1/2/76	FR	A61J	3/06	Abstract	
	FL	2	2	7	3	5	8	4	1/2/76	FR	B 01 J	2/10	Abstract	
	FM	5	2	5	7	3	1	5	5/11/77	JP	A61K	9/22	Abstract	
	FN	6	6	5	0	1	0		10/14/93	EP (A1)	A61K	9/26		
	FO	1	5	0	4	5	5	3	3/22/78	GB	A61K	47/00		
	FP	8	9	7	6	0	9	1	6/18/92	AU (A)	A23L	001/09		
	FQ	5	4	2	2	4	3	1	10/13/94	WO	A61K	9/20		
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
<i>SD</i>	FR	A.R. Gennaro, "Particle Phenomena and Coarse Dispersions", Remington's Pharmaceutical Sciences, 17th Edition, 1985, p. 301												
	FS	J.L. Ford, "The Current Status of Solid Dispersions", Pharm. Acta Helv. 61, Nr. 3 (1986), pp. 69-88												
	FT	CA 74:67660 (1996) (1 page)												
EXAMINER	<i>Simon On</i>							DATE CONSIDERED <i>2/18/04</i>						

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<i>SL</i>	GA	3	7	1	4	3	5	0	01/30/73	Gough	424	203		
	GB	5	1	6	2	1	1	7	11/10/92	Stupak, et al.	424	475		
	GC	5	1	6	5	9	5	2	11/24/92	Solomon, et al.	427	2		
	GD	5	2	3	4	6	9	7	08/10/93	Sipos	424	490		
	GE	5	0	1	3	3	0	6	05/07/91	Solomon, et al.	604	265		
	GF	5	4	5	1	4	2	4	11/19/95	Solomon, et al.	427	2.1		
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
		GG	2	4	3	9	5	3	8	DE	A61K	9/22	Abstract	
		GH	2	0	4	5	9	6		EP	A61K	9/14	Abstract	
		GI	5	8	0	8	6	0	02/94	EP (A1)				
		GJ	0	5	2	9	3	9	6	EPO	A61K	9/20	abstract	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
<i>SL</i>	GK	CA 101:60081 (1996) (1 page)												
	GL	CA 113:98975 (1996) (1 page)												
	GM	CA 113:218240 (1996) (1 page)												
	GN	CA 114:30199 (1996) (1 page)												
	GO	CA 112:75438 (1996) (1 page)												
	GP	CA 115:177364 (1997) (1 page)												
<i>SL</i>	GQ	R. Kinget, et al., "Preparation and Properties of Granulates Containing Solid Dispersions", Acta Phar. Tech., Vol. 31, No. 2, 1985, pp. 57-62												
EXAMINER	<i>Simon Aln</i>							DATE CONSIDERED <i>2/8/04</i>						

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<i>SL</i>	HA	2	7	3	8	3	0	3	3/13/56	Blythe, et al.	167	82		
	HB	3	0	6	5	1	4	3	11/20/62	Christenson, et al.				
	HC	3	6	5	2	5	8	9	3/28/72	Flick, et al.	260	326.5M		
	HD	3	8	3	0	9	3	4	8/20/74	Flick, et al.	424	330		
	HE	3	8	4	5	7	7	0	11/5/74	Theeuwes, et al.	128	260		
	HF	3	9	5	0	5	0	8	4/13/76	Mony, et al.	424	19		
	HG	3	9	6	5	2	5	6	6/22/76	Leslie	424	22		
	HH	3	9	7	4	1	5	7	8/10/76	Shetty, et al.	260	247.2B		
	HI	4	9	1	3	7	8	4	3/22/77	Speiser	424	19		
	HJ	4	9	7	6	7	9	8	2/28/78	Casey et al.	424	419		
	HK	4	2	5	9	3	1	4	3/31/81	Lowey	424	19		
	HL	4	3	1	0	4	8	3	1/12/82	Dorfel, et al.	264	117		
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		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
<i>SL</i>	HM	9	1	1	9	4	8	4	12/26/91	PCT	A61K	9/16	Abstract	
	HN	9	1	1	9	4	8	5	12/26/91	PCT	A61K	9/16	Abstract	
	HO	9	2	0	7	4	4	6	2/6/92	PCT	A61K	9/50		
	HP	9	2	0	2	2	4	9	2/20/92	PCT	A61K	9/22	Abstract	
	HQ	8	2	0	5	7	7	9	4/16/92	PCT	A61K	9/18	Abstract	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
<i>SL</i>	HR	M.J. Jozwiakowski et al., "Characterization of a Hot-Melt Fluid Bed Coating Process for Fine Granules", Pharm. Research, Vol. 7, No. 11, 1990, pp. 1119-24												
	HS	B. Evrard et al., "Melt Granulation With a New Laboratory High-Shear Mixer", Laboratoire de Pharmacie Galenique, Institut de Pharmacie												
	HT	M. Niskanen et al., "Pelletization in a Centrifugal Granulator, Part I: Effects of Binder-Solution Concentration", Pharm. Tech. Int'l., October 1990, pp. 22-38												
EXAMINER	<i>Simon A.</i>							DATE CONSIDERED <i>2/18/01</i>						

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE							ATTY. DOCKET NO.: 228.1010		SERIAL NO.: 09/980,727			
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)									APPLICANT(S): Hubert REIN, et al.					
									FILING DATE: October 18, 2001		GROUP: 1615			
U.S. PATENT DOCUMENTS														
*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		IA	4	3	4	3	7	8						9
<i>SP</i>	IA	4	3	8	6	1	7	2	8/10/82	Kawata, et al.	424	461		
<i>SP</i>	IB	4	3	8	6	1	7	2	12/28/82	Lednicer	424	330		
	IC	4	3	8	0	5	9	4	4/19/83	Fukui, et al.	264	38		
	ID	4	3	8	9	3	9	3	6/21/83	Schor, et al.	424	19		
	IE	4	4	2	1	7	3	6	12/20/83	Walters, et al.	424	21		
	IF	4	4	8	3	8	4	7	11/20/84	Augart	424	22		
	IG	4	6	1	3	6	1	8	9/23/86	Sleigh et al.	514	546		
	IH	4	8	0	1	4	5	8	1/31/89	Hidaka, et al.	424	443		
	II	4	0	3	4	9	8	4	5/30/89	Goldie, et al.	424	488		
	IJ	4	0	4	4	9	0	7	7/4/89	Eiger et al.	424	465		
	IK	4	8	4	4	9	9	9	7/4/89	Goldie et al.	424	480		
<i>SP</i>	IL	4	9	1	7	8	0	0	4/17/90	Geoghegan et al.	424	19		
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
		IM	9	2	0	6	6	7					0	YES
<i>SP</i>	IM	9	2	0	6	6	7	0	4/30/92	PCT	A61K	9/16		
<i>SP</i>	IN	9	2	2	2	2	8	3	12/23/92	PCT	A61K	9/02		
<i>SP</i>	IO	9	3	0	0	0	7	8	1/7/93	PCT	A61K	9/51		
<i>SP</i>	IP	9	3	0	4	8	7	9	3/18/93	PCT	A61K	31/16		
<i>SP</i>	IQ	9	3	0	7	8	8	1	4/29/93	PCT	A61K	9/50		
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
<i>SP</i>	IR	L. Lachman et al., "The Theory and Practice of Industrial Pharmacy", p. 315, Lea & Febiger, Phi. 1976.												
<i>SP</i>	IS	FDA Guide to Inspections of Oral Solid Dosage Forms Pre/Post Approval Issues for Development and Validation, January 1994												
<i>SP</i>	IT	T. Schaefer et al., "Melt Pelletization in a High Shear Mixer I Effects of Process Variables and Binder", Acta Pharm. Nord. Vol. 4, No. 3, pp. 133-140, 1992.												
EXAMINER <i>Simon Al</i>		DATE CONSIDERED <i>2/8/04</i>												
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SP	JA	4	9	2	5	6	7	5	5/15/90	Giannini, et al.	424	78		
	JB	4	9	3	5	2	4	6	6/19/90	Ahrens	424	490		
	JC	4	9	6	7	4	8	6	11/6/90	Doelling	34	1		
	JD	4	9	7	9	0	7	5	11/13/90	Oshlack	424	451		
	JE	4	9	8	7	1	3	6	1/22/91	Kreek et al.	514			
	JF	4	9	9	0	3	4	1	2/5/91	Goldie et al.	424	484		
	JG	5	0	0	7	7	9	6	4/16/91	Shell	424	451		
	JH	5	0	2	6	5	6	0	6/25/91	Makino, et al.	424	494		
	JI	5	0	3	0	4	0	6	7/9/91	Danielson, et al.	264	101		
	JJ	5	1	2	6	1	4	5	6/30/92	Evenstad	424	465		
	JK	5	1	3	2	1	4	2	7/21/92	Jones, et al.	427	196		
	JL	5	1	6	7	9	6	4	12/1/92	Muhammed, et al.	424	482		
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
SP	JM	9	3	1	7	6	6	7	9/16/93	PCT	A61K	9/16		
	JN	9	4	0	3	1	6	0	2/17/94	PCT	A61K	9/32		
	JO	9	4	0	3	1	6	1	2/17/94	PCT	A61K	9/52		
	JP	9	4	0	5	2	6	2	3/17/94	PCT	A61K	9/16		
	JQ	9	4	2	3	7	0	0	10/27/94	PCT	A61K	9/16		
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
SP	JR	T. Schaefer et al., "Melt Pelletization in a High Shear Mixer II Power Consumption and Granule Growth", Acta Pharm. Nord. Vol. 4, No. 3, pp. 141-148, 1992												
SP	JS	T. Schaefer, et al., "Melt Granulation in a Laboratory Scale High Shear Mixer", Drug Dev. and Indust. Phar., Vol. 16, No. 8, pp. 1249-1277, 1990.												
SP	JT	McTaggart, C.M. et al., "The Evaluation of Formulation and Processing Conditions of a Melt Granulation Process", Int'l. J. Pharm. Vol. 19, No. 2, issued 1984, pp. 139-148												
EXAMINER <i>Simon</i>		DATE CONSIDERED <i>2/17/04</i>												

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U.S. PATENT DOCUMENTS														
*EXAMINER INITIAL		DOCUMENT NUMBER						DATE	NAME		CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
SD	KA	5	1	6	9	8	4	5	12/8/92	Shukla, et al.	424	499		
	KB	5	1	7	8	8	6	8	1/12/93	Malmqvist-Granlund et al.	424	490		
	KC	5	1	9	6	2	0	3	3/23/93	Boehm	424	490		
	KD	5	2	0	4	1	1	9	4/20/93	Shiobara, et al.	424	489		
	KE	5	2	6	6	3	3	1	11/30/93	Oshlack, et al.	424	468		
	KF	5	2	9	2	4	6	1	3/8/94	Juch et al.	264	37		
	KG	5	3	0	0	3	0	0	4/5/94	Egidio, et al.	424	456		
	KH	5	3	9	5	6	2	6	3/7/95	Kotwal, et al.	424	472		
	KI	5	4	0	3	5	9	3	4/4/95	Royce	424	489		
	KJ	5	4	4	3	8	4	6	8/22/95	Yoshioka et al.	424	498		
	KK	5	4	5	3	2	8	3	9/26/95	Münch et al.	424	489		
	KL	5	4	7	2	7	1	0	12/5/95	Klokkers-Bethke, et al.	424	468		
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER						DATE	COUNTRY		CLASS	SUBCLASS	TRANSLATION	
SD	KM	9	5	1	4	4	6	0	6/1/95	PCT	A61K	9/14	YES	NO
	KN	0	0	3	2	0	0	4	12/09/80	EP (A)	A61K	9/22		
	KO	0	0	4	3	2	5	4	5/30/84	EP (B1)	A61K	9/26		
	KP	0	0	6	8	4	5	0	1/10/90	EP (B1)	A61K	9/20		
	KQ	0	0	9	7	5	2	3	1/04/84	EP (A2)	A61K	9/26		
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
SD	KR	El-Shanawany, S., "Sustained Release of Nitrofurantoin From Inert Wax Matrixes", J. Controlled Release, Vol. 26, No. 1, issued 1993, pp. 11-19												
SD	KS	P. Flanders, et al., "The Control of Drug Releases From Conventional Melt Granulation Matrices", Drug Dev. and Industrial Pharm., Vol. 13, No. 6, pp. 1001-22, 1987.												
SD	KT	Thomsen, L. Juul, "Matrix Pellets Prolonged Formulations Prepared by Melt Pelletization", Dept. of Pharm. Royal Danish School of Pharmacy, 1992												
EXAMINER		Simon On						DATE CONSIDERED		2/5/04				
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U.S. PATENT DOCUMENTS													
*EXAMINER INITIAL <i>SD</i>		DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	LA	5	2	7	1	9	3	4	12/21/93	Goldberg, et al.	424	401	
FOREIGN PATENT DOCUMENTS													
		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
												YES	NO
<i>SD</i>	LB	0	1	0	8	2	1	8	5/16/84	EP (A2)	A61K	9/22	
	LC	0	1	4	7	7	8	0	12/19/84	EP (A2)	A61K	9/32	
	LD	0	1	5	2	3	7	9	8/21/85	EP (A2)	A61K	9/50	Abstract
	LE	0	1	8	9	8	6	1	8/6/86	EP (A2)	A61K	47/00	
	LF	0	2	0	5	2	8	2	9/13/95	EP (B1)	A61K	9/22	
	LG	0	2	1	4	7	3	5	3/18/87	EP (A2)	A61K	9/22	
	LH	0	2	4	1	6	1	5	10/12/87	EP (B1)	A61K	9/22	
	LI	0	2	4	8	5	4	8	12/09/87	EP (A2)	A61K	9/22	
	LJ	0	2	4	9	3	4	7	12/16/87	EP (A2)	A61K	31/485	
	LK	0	2	4	9	3	4	7	12/16/87	EP (B1)	A61K	31/485	
	LL	0	2	5	1	4	5	9	1/07/88	EP (A2)	A61K	9/22	
	LM	0	2	5	3	1	0	4	1/20/88	EP (A1)	A61K	9/00	
	LN	0	2	5	4	9	7	8	2/3/88	EP (A1)	A61K	9/22	
	LO	0	2	5	6	1	2	7	2/24/88	EP (B1)	C12N	9/00	
	LP	0	2	6	7	7	0	2	5/18/88	EP (A2)	A61K	9/14	
	LQ	0	2	7	1	1	9	3	6/15/88	EP (A2)	A61K	31/485	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)													
<i>SD</i>	LR	Thomsen, L. Juul, et al., "Prolonged Release Matrix Pellets Prepared by Melt Pelletization I. Process Variables", Drug Development and Industrial Pharmacy, Vol. 19, No. 15, pp. 1867-1887 (1993)											
<i>SD</i>	LS	Thomsen, L. Juul, et al., "Prolonged Release Matrix Pellets Prepared by Melt Pelletization II. Hydrophobic Substances as Meltable Binders", Drug Development and Industrial Pharmacy, Vol. 20, No. 7, pp. 1179-1197 (1994)											
<i>SD</i>	LT	Thomsen, L. Juul, "Utilizing melt pelletization technique for the preparation of prolonged release products", Pelletization, (material elaborated by assistant Prof. Lars Juul Thomsen, Dept. of Pharmaceutics, Royal Danish School of Pharmacy for the DIE course "Pelletization Technology", November 1992, 106 pages plus appendices)											
EXAMINER <i>Simon Oh</i>		DATE CONSIDERED <i>2/8/04</i>											
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	MA	5	4	7	8	5	7	7	12/26/95	Sackler et al.	424				
FOREIGN PATENT DOCUMENTS															
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
		MB	0	2	9	5	2	1	2	12/14/88	EP (A2)	A61K	47/00	YES	NO
		MC	0	3	2	7	2	9	5	8/9/89	EP (A2)	A61K	9/52		
		MD	0	3	5	1	5	8	0	1/24/90	EP (A2)	A61K	9/22		
		ME	0	3	6	1	6	8	0	4/4/90	EP (B1)	A61K	9/46		
		ME	0	3	6	1	9	1	0	4/4/90	EP (A1)	A61K	9/16		
		MG	0	3	7	7	5	1	7	7/11/90	EP (A2)	A61K	31/52		
		MH	0	3	7	7	5	1	8	1/90	EP (A2)	A61K	9/52		
		MI	0	4	1	5	8	9	3	3/6/91	EP (A1)	A61K	37/02		
		MJ	0	4	3	0	2	6	7	6/5/91	EP (B1)	A61K	9/54		
		MK	0	4	5	2	1	4	5	10/16/91	EP (A2)	A61K	9/14		
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)															
<i>SD</i>	ML	Thomsen, L. Juul, "Prolonged Release Matrix Pellets Prepared by Melt Pelletization. Part IV: Drug Content, Drug Particle Size and Binder Composition", Pharmaceutical Technology Europa, pp. 19-22 (October 1994)													
	MM	N. Follonier et al., "Evaluation of Hot-Melt Extrusion as a New Technique for the Production of Polymer-Based Pellets for Sustained Release Capsules Containing High Loadings of Freely Soluble Drugs", Drug. Dev. and Industr. Pharm., Vol. 20, No. 8, pp. 1323-1339, (1994)													
	MN	Sustained Release Medications, pp. 50-53, Noyes Data Corp. (J.C. Johnson), 1980.													
	MO	M.A. Langer, "Sustained-Release Drug Delivery Systems", Remington's Pharm. Scie., 18th Edition, pp. 1676-1693, 1990.													
	MP	M. Zahirul I. Khan, "Recent Trends and Progress in Sustained or Controlled Oral Delivery of Some Water Soluble Drugs: Morphine Salts, Diltiazem and Captopril", Drug Dev. and Industr. Pharm., Vol. 21, No. 9, pp. 1037-1070, 1995.													
<i>W</i>	MQ	J.P. Skelly, "Scaling-up of Immediate Release Oral Solid Dosage Forms, AAPS/FDA Workshop Committee, Pharmaceutical Technology, pp. 68-74, April 1995.													
	MR	SK Baveja et al., Int. J. Pharmaceutics, 41, (1988), pp. 55-62.													
EXAMINER	<i>Summer Con</i>							DATE CONSIDERED <i>2/8/04</i>							

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	NA	5	3	7	8	4	6	2	01/03/95	Boedecker, et al.	424	94.29		
FOREIGN PATENT DOCUMENTS														
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		NB	0	6	2	4	3	6	6	11/17/94	EPO (B1)	A61K	31/135	
		NC		5	7	2	2	4	5/7/86	Australia	A61K	47/00		
		ND	0	4	6	3	8	3	3	1/02/92	EP (A2)	A61K	9/26	
		NE	0	5	2	6	8	0	2	2/10/93	EP (A1)	A61K	9/20	
		NF	0	5	3	1	6	1	1	3/17/93	EP (A1)	A61K	9/02	
		NG	0	5	3	3	2	9	7	3/24/93	EP (A1)	A61K	9/48	
		NH	0	5	3	4	6	2	8	3/31/93	EP (A1)	A61K	31/485	
		NI	0	5	3	5	8	4	1	4/7/93	EP (A1)	A61K	31/485	
		JJ	0	5	4	6	6	7	6	6/16/93	EP (A1)	A61K	31/60	
		NK	0	5	8	2	3	8	0	2/9/94	EP (A1)	B01J	2/16	
		NL	0	5	9	5	3	1	1	5/4/94	EP (A1)	A61K	31/44	Abstract
		NM	0	6	0	9	9	6	1	8/10/94	EP (A1)	A61K	31/485	
		NN	0	6	2	4	3	6	6	11/17/94	EP (B1)	A61K	31/135	
		NO	0	6	3	6	3	7	0	2/1/95	EP (A1)	A61K	31/485	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
	NP	Formulating for Controlled Release with METHOCEL® Premium Cellulose Ethers, The Dow Chemical Company, 1989.												
	NQ	M.S. Vazquez et al., Drug Dev. & Ind. Pharmacy, 18 (11 & 12), pp. 1355-1378 (1992).												
	NR	L.W.S. Cheong et al., Pharm. Res. 9 (11), pp. 1510-1514 (1992).												
	NS	Hunt et al., Clin. Ther., Vol. 13, No. 4, pp. 482-488, 1990												
EXAMINER <i>SD</i>		DATE CONSIDERED <i>2/8/04</i>												

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<i>SD</i>	OS	5	7	0	0	4	1	0	12/23/97	Nakamichi et al	264	122	
FOREIGN PATENT DOCUMENTS													
		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
												YES	NO
<i>SD</i>	OB	0	6	4	2	7	8	8	3/15/95	EP (A2)	A61K	31/135	Abstract
	OC	0	9	9	7	3	9	9	7/07/65	GB			
	OD	1	4	0	5	0	8	8	9/03/75	GB	A61K	8/26	
	OE	1	5	1	3	1	6	6	6/7/78	GB	B28B	1/02	
	OF	2	0	3	0	8	6	1	4/16/80	UK (A)	A61J	3/08	
	OG	2	0	5	3	6	8	1	2/11/81	GB(B)	A61K	9/22	
	OH	2	1	1	1	3	8	6	7/06/83	GB (A)	A61K	9/20	
	OI	2	1	1	7	2	3	9	10/12/83	GB (A)	A61K	9/20	
	OJ	2	1	3	1	3	5	0	3/4/95	Canada (A1)	A61K	31/135	
	OK	2	1	8	6	8	4	8	5/11/88	GB (A)	A61K	8/22	
	OL	2	2	4	6	5	1	4	2/5/92	GB (A)	A61K	9/16	
	OM	2	2	8	1	2	0	4	3/1/95	GB (A)	A61K	9/16	
	ON	2	2	8	4	7	6	0	6/21/95	UK (A)	A61K	9/16	
	OO	2	6	4	2	4	2	0	8/03/80	FR (A1)	C07C	55/10	Abstract
	OP	3	6	0	2	3	7	0	8/6/87	DE (A1)	A61K	45/06	Abstract
	OQ	3	8	2	3	1	9	3	1/14/88	DE (A1)	A61K	31/205	Abstract
	OR	4	3	2	9	7	9	4	3/9/95	DE (A1)	A61K	31/135	Abstract
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)													
<i>SD</i>	OS	METHOCEL, Colorcon, Technical Information											
EXAMINER								DATE CONSIDERED					
<i>Simon Orl</i>								<i>2/8/04</i>					
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FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE							ATTY. DOCKET NO.: 228.1010		SERIAL NO.: 09/980,727				
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)									APPLICANT(S): Hubert REIN, et al.						
									FILING DATE: October 19, 2001		GROUP: 1615				
U.S. PATENT DOCUMENTS															
*EXAMINER INITIALS <i>SO</i>		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
<i>SO</i>	PA														
FOREIGN PATENT DOCUMENTS															
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
														YES	NO
<i>SO</i>	PB	2	3	3	8	3	8	3	10/25/89	EPO (B1)	A61K	9/54	Abstract		
	PC	2	0	8	2	5	7	8	5/24/93	CA	A61K	047/38			
	PD	2	1	5	0	3	0	4	12/1/95	CA (A1)	B01J	2/20			
	PE	2	2	8	1	2	0	4	3/1/95	GB (A)	A61K	9/16			
	PF	2	2	8	0	7	6	0	6/21/95	GB (A)	161K	9/16			
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)															
<i>SO</i>	PG	DA Alderman, Int. J. Pharm. Tech. and Prod. Mfr., 5(3), pp. 1-8, 1984.													
	PH	HE Huber et al., J. Pharm. Sci. 55 (9), Sept. 1966, pp. 874-876.													
	PI	Lin SY et al., Current Therapeutic Research 52 (3), pp. 486-492, Sept., 1992.													
	PJ	Aqualon Technical Information Bulletin, VC-585, 1991													
	PK	P. Colombo, Advanced Drug Delivery Reviews, 11 (1993), pp. 37-57.													
	PL	KV Renga Rao et al., Int. J. Pharmaceutics, 48 (1988), pp. 1-13.													
	PM	JE Hogan, Drug Dev. & Ind. Pharmacy, 15 (6 & 7), p. 975-999, (1989)													
	PN	JL Ford et al., Int. J. Pharmaceutics, 24 (1985), pp. 327-338.													
	PO	PB Daly et al., Int. J. Pharmaceutics, 18 (1984), pp. 201-205.													
	PP	E.M.G. van Bommel, "Production and Evaluation of In Vitro Release Characteristics of Spherical Gradient Matrix Systems", Acta Phar., Technol. 3b (2), pp. 74-78, 1990.													
	PQ	Nicolas Follonier et al., "Various Ways of Modulating the Release of Diltiazem Hydrochloride from Hot-melt Extruded Sustained Release Pellets Prepared Using Polymeric Materials", Journal of Controlled Release, 36, pp. 243-250 (1995).													
	PR	Alan Royce et al., "Alternative Granulation Technique: Melt Granulation", Drug Development and Industrial Pharmacy, 22 (9 & 10), pp. 917-92 (1996).													
<i>SO</i>	PS	Derwent Abstract of EP 0208144, published 1-14-87													
EXAMINER <i>Simon O.</i>								DATE CONSIDERED <i>2/8/04</i>							
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LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)										APPLICANT(S): Hubert REIN, et al.				
										FILING DATE: October 18, 2001		GROUP: 1615		
U.S. PATENT DOCUMENTS														
*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
SD	QA	4	2	8	0	9	7	1	07/28/81	Wischniewski et al.	264	15		
J	QB	5	1	4	7	5	9	3	09/15/92	Huttilin	264	500		
J	QC	4	9	7	5	2	6	4	12/04/90	Stead et al.	424	497		
J	QD	4	7	6	2	2	2	0	08/09/88	Lütke	198	519		
	QE													
	QF													
	QG													
	QH													
	QI													
	QJ													
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
												YES	NO	
SD	QK	EP	02	0	8	1	4	4	1/14/87	EPO(A1)	A61K	9/16	Abstract	
J	QL	EP	06	7	7	0	6	5	8/25/93	EPO(A1)	A61K	9/16		
J	QM	9	1	0	4	0	1	5	4/4/91	WO	A61K	9/16		
	QN													
	QO													
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
QP														
QQ														
QR														
EXAMINER	<i>Simon</i>							DATE CONSIDERED						
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SO		RA	6	2	6	1	5	9	9	7/17/2001	Oshlack et al.	424	457		
		RB	5	9	5	8	4	5	2	09/28/1999	Oshlack et al.	424	457		
		RC	6	3	3	5	0	3	3	01/01/2002	Oshlack et al.	424	457		
		RD	4	8	1	2	0	0	9	09/16/86	Drobnič et al.	604	881		
		RE													
		RF													
FOREIGN PATENT DOCUMENTS															
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
SG		RG	0	5	7	4	8	9	4	12/22/93	EPO (A1)	A61K	31/575	YES	NO
SG		RH	0	1	1	8	2	4	0	09/12/84	EPO(A2)	C 08 L	3/00		
		RI	9	2	1	5	2	8	5	09/17/92	WO	A61K	9/20		
		RJ	9	8	1	0	7	6	2	3/19/98	WO	A61K	31/435		
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)															
	RK	English translation of Japanese text of J.L. White, Twin Screw Extrusion, Technology and Principles, pages 14 and 37, 1981.													
	RL														
	RM														
EXAMINER	<i>Simon Ch</i>							DATE CONSIDERED <i>2/5/04</i>							
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